

METHOD FOR MEASURING A SOUND SIGNAL PROPAGATION DELAY IN A FLUID BY ZERO-CROSSING OF THE SAID SOUND SIGNAL

Publication number: EP0902883

Publication date: 1999-03-24

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Classification:

- **International:** G01F1/66; G01F1/66; (IPC1-7): G01F1/66

- **European:** G01F1/66F

Application number: EP19970928307 19970606

Priority number(s): WO1997FR01012 19970606; FR19960007189
19960607

Also published as:



WO9746854 (A1)

US6226598 (B1)

FR2749652 (A1)

EP0902883 (A0)

EP0902883 (B1)

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Abstract not available for EP0902883

Abstract of corresponding document: **WO9746854**

The invention features a method for measuring a sound signal propagation delay between two remote transducers placed in a fluid flow, that consists in sampling and digitizing each sound signal received, in determining for each sampled and digitized period of the said signal the maximum amplitudes P- and P+ of the two lobes of the period of interest, in comparing the ratio of these amplitude to a theoretical amplitude ratio between the maximum amplitudes Pi- and Pi+ of the two lobes of an ideal characteristic first period determining the first zero-crossing of the characteristic oscillations of the signal and, based on the result of this comparison relative to a threshold value GS, in considering the said period of interest as a characteristic period or not, and in determining the zero-crossing of this characteristic period between two lobes or not.

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